PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2021-04-03-06 **Date: 18-02-21**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."

Agency : Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086

Customer Reference : BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 15-02-21

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-೦೧

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY / GEO TECHNICAL / ...

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2021-04-03-06 **Date: 18-02-21**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."

Agency : Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086

Customer Reference : BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 15-02-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 15-02-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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Certificate No.: TC-5548

5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2021-04-03-06** **Date: 23-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-21
Type of Mix	:	Tack coat
Date of Test	:	22-02-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-04-03-06** **Date: 27-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No.63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	25-01-21
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-04-03-06** **Date: 05-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	03-02-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-04-03-06** **Date: 08-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	06-02-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2021-04-03-06 **Date: 12-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	10-02-21
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2021-04-03-06**	**Date: 13-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."	
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-02-21	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	10-02-21	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.0		
Strength	Aggregate Impact Value	19.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2021-04-03-06	**Date: 13-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."	
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-02-21	
Type of Mix	:	DBM(Dense Bitumnous Macadam)	
Date of Test	:	10-02-21	
Type of Binder	:	60/70	
% of Binder Used	:	5.0%	
Weight of Aggregate	:	200.0 gm	
Weight of Binder	:	10.0 gm	
Temperature of water bath	:	40°C	

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.0	3.0	98.3	Minimum Retained Coating 95%
2	99.0	1.0		
3	99.0	1.0		

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Certificate No.: TC-5548

Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-03-06** **Date: 01/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	150.23 X 149.87 X 149.71	22514	8.940	412.5	18.3	18.4
2	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	151.10 X 151.57 X 150.23	22903	8.417	424.4	18.5	
3	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	151.35 X 150.21 X 149.24	22734	8.964	416.9	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-04-03-06 **Date: 01/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	150.69 X 150.10 X 149.80	22619	8.940	420.8	18.6	18.4
2	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	150.15 X 150.97 X 151.10	22669	8.417	416.8	18.4	
3	Drain Side Wall Concrete	M20	25/01/2021	01/02/2021	151.75 X 150.28 X 151.89	22806	8.964	416.3	18.3	

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Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2021

Lab ID	:	CP-2021-04-03-06
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Raft Concrete	M20	29/01/2021	05/02/2021	149.10 X 151.53 X 149.28	22593	8.940	406.8	18.0	18.3
2	Culvert Bottom Raft Concrete	M20	29/01/2021	05/02/2021	149.03 X 150.82 X 149.51	22477	8.417	423.6	18.8	
3	Culvert Bottom Raft Concrete	M20	29/01/2021	05/02/2021	150.15 X 150.66 X 151.89	22622	8.964	408.8	18.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-04-03-06 **Date: 10-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SI.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-04-03-06

Date: 15-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2021-04-03-06 **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-01-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST RESULTS OF STEEL

Lab ID	:	CP-2021-04-03-06 Date: 13-01-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	12-01-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-04-03-06**	**Date: 03-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."	
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-01-21	
Sample Type /Size	:	Precast Cover Slab (100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	30/01/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-04-03-06 Date: 19/02/2021
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	151.98 X 149.63 X 150.04	22741	8.387	526.4	23.1	23.0
2	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	151.98 X 151.43 X 151.88	23014	8.616	508.3	22.1	
3	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	150.07 X 151.54 X 151.88	22741	8.816	540.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-03-06 **Date: 29/01/2021**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No.:04."

Agency : Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-01-21

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	22/01/2021	29/01/2021	150.23 X 149.52 X 150.90	22462	8.940	404.7	18.0	18.3
2	Drain Bottom Raft Concrete	M20	22/01/2021	29/01/2021	151.52 X 150.49 X 150.50	22802	8.417	410.8	18.0	
3	Drain Bottom Raft Concrete	M20	22/01/2021	29/01/2021	151.55 X 149.61 X 150.06	22673	8.964	429.8	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-04-03-06 **Date: 19/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains Balance Main and Cross Roads of Mathru Layout in Ward No:04."
Agency	:	Sri.Murulidhara.C.R, No:63, 5th Cross, Sathyanarayana Layout, J.C.Nagara, Kurubarahalli, Mahalakshmipuram Layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/208/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	149.67 X 150.07 X 151.09	22461	8.387	530.3	23.6	23.3
2	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	149.50 X 151.13 X 150.61	22593	8.616	505.1	22.4	
3	Drain Bottom Raft Concrete	M20	22/01/2021	19/02/2021	151.95 X 149.28 X 150.36	22682	8.816	541.0	23.9	

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